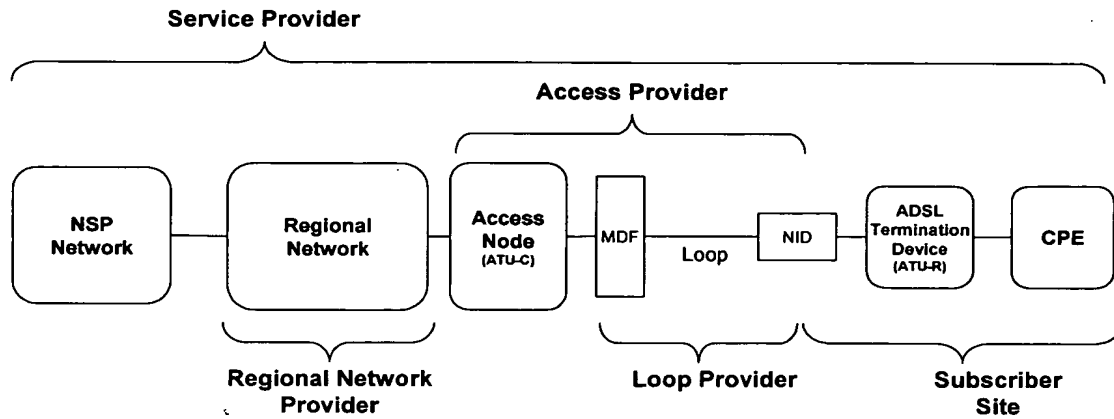


**FIGURE 1
(Prior Art)**



**FIGURE 2
(Prior Art)**

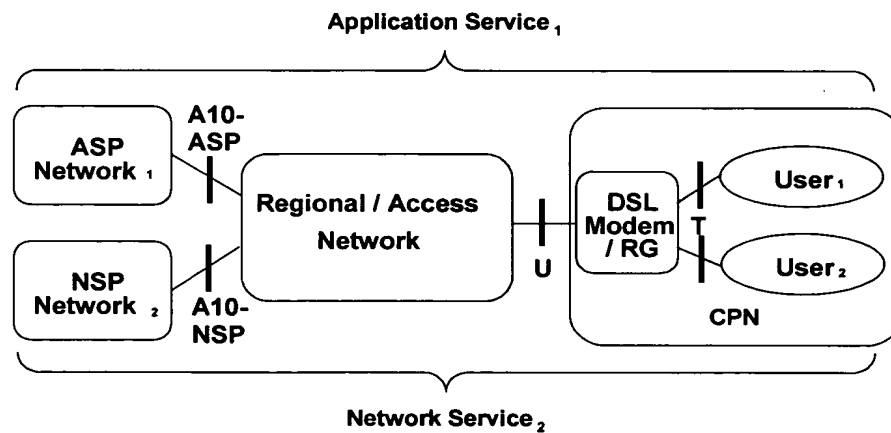


FIGURE 3
(Prior Art)

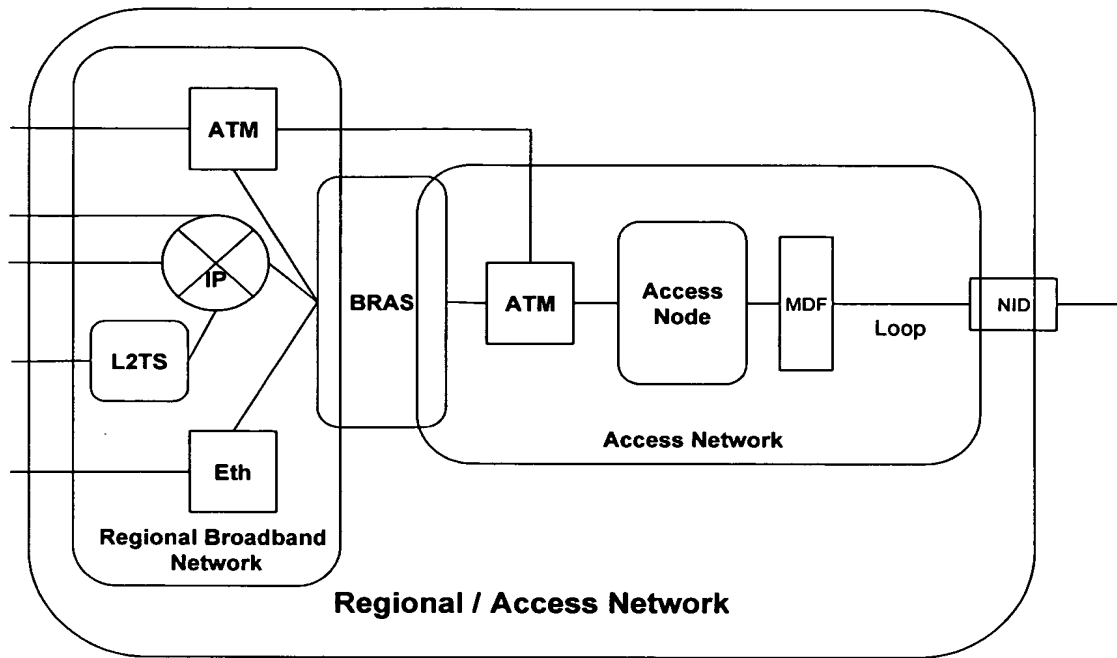


FIGURE 4 (Prior Art)

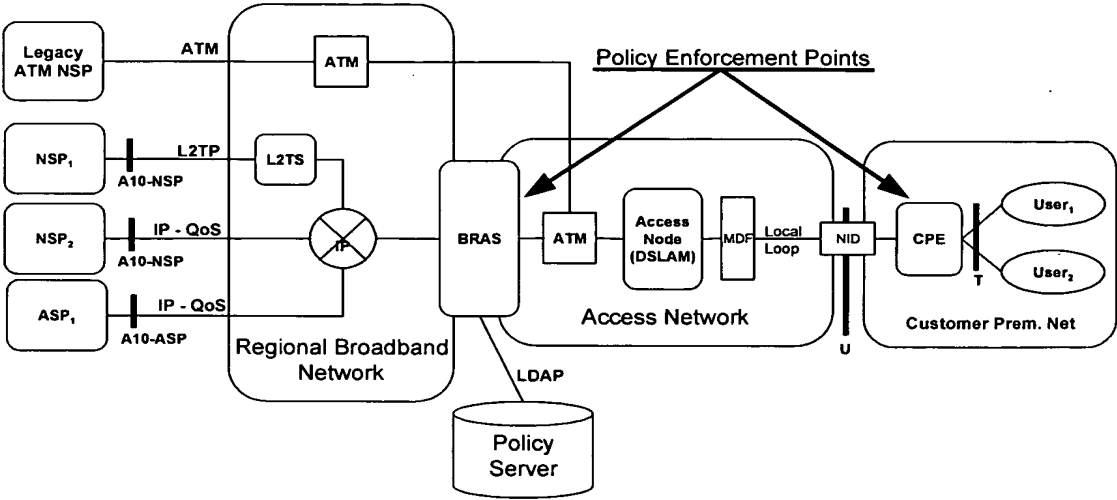


FIGURE 5

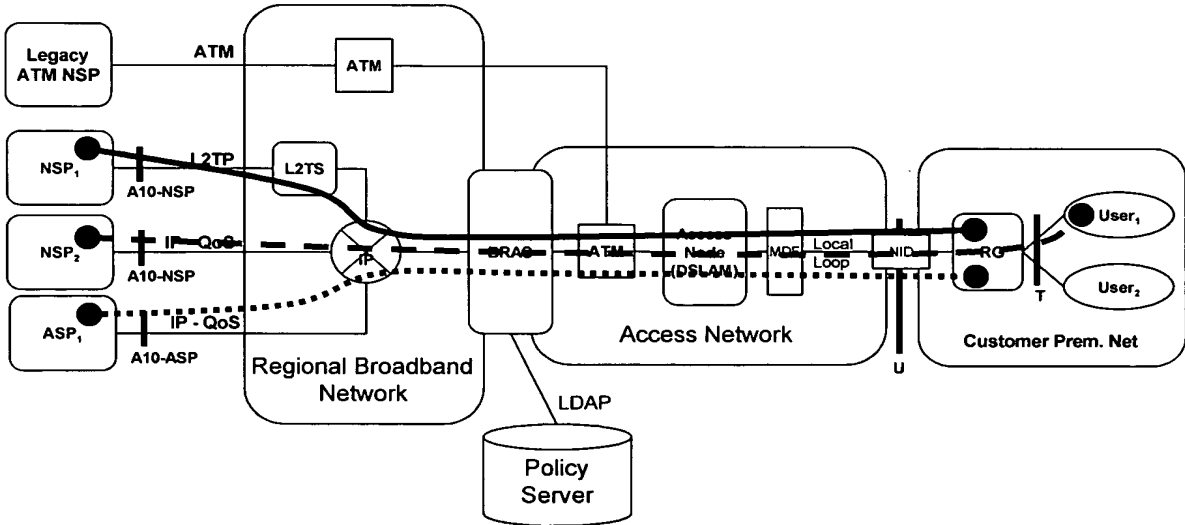


FIGURE 6

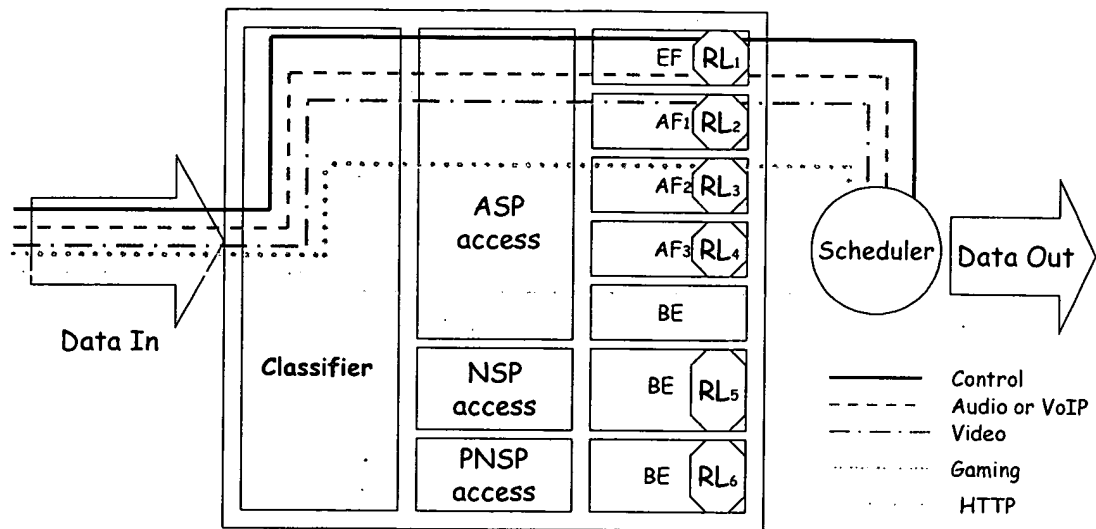


FIGURE 7

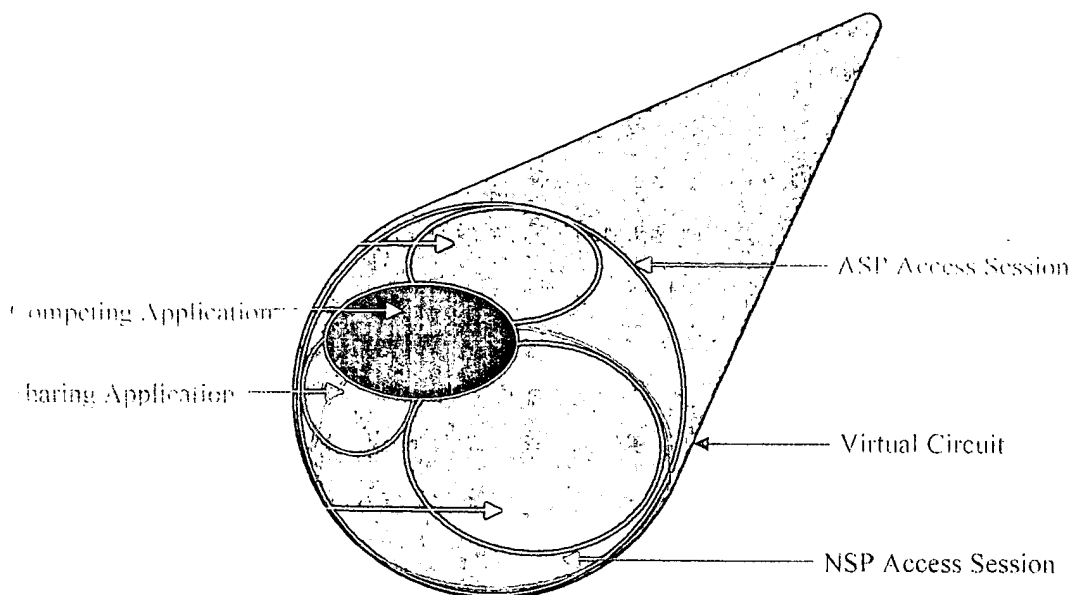


FIGURE 8

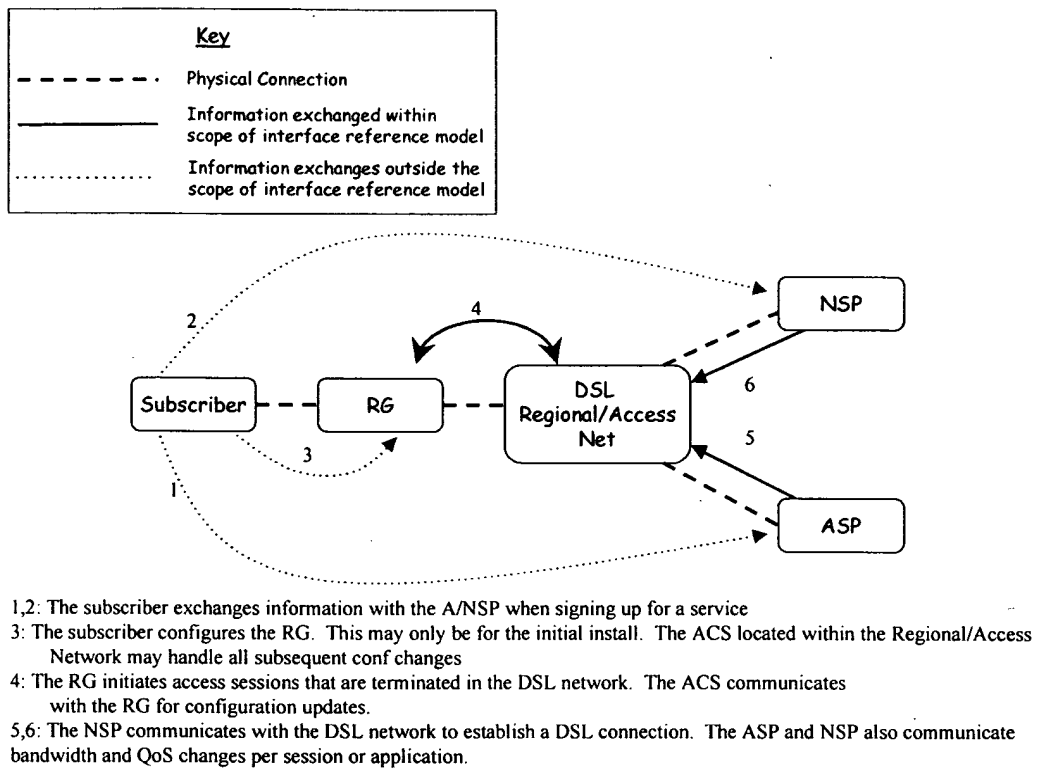


FIGURE 9

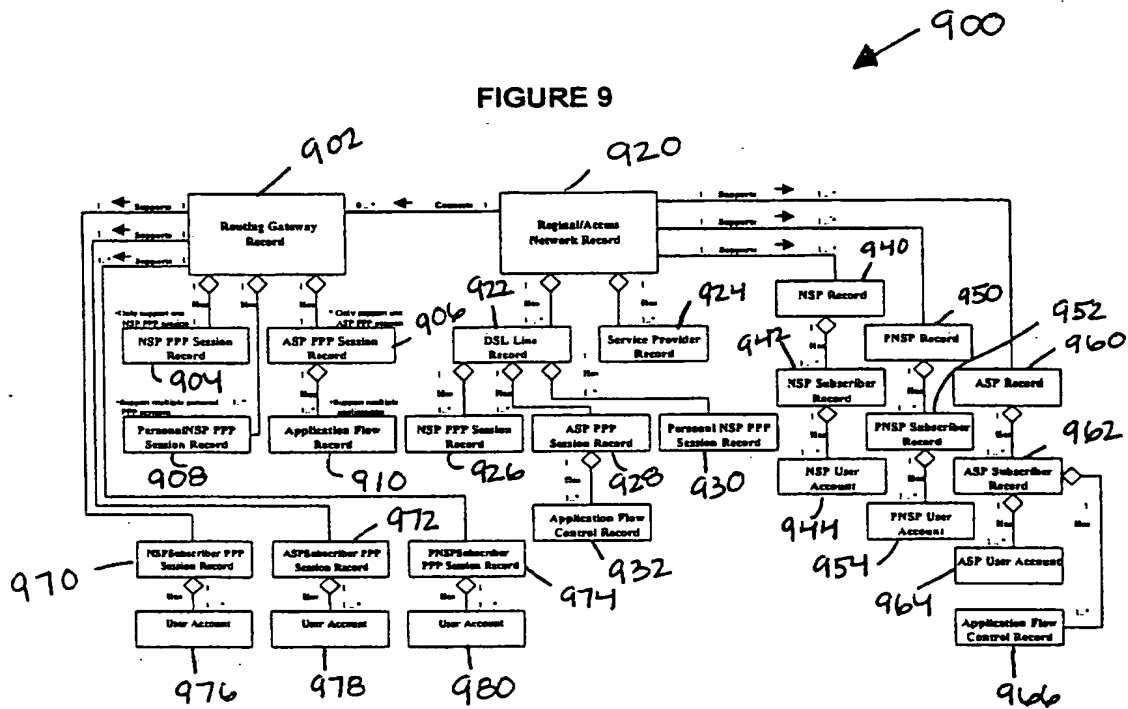


FIGURE 10

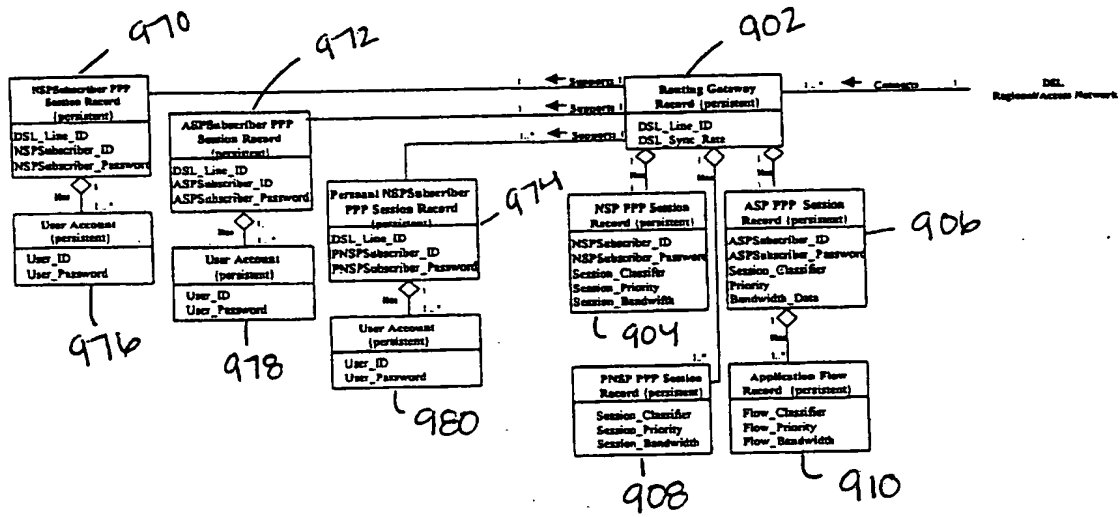


FIGURE 11

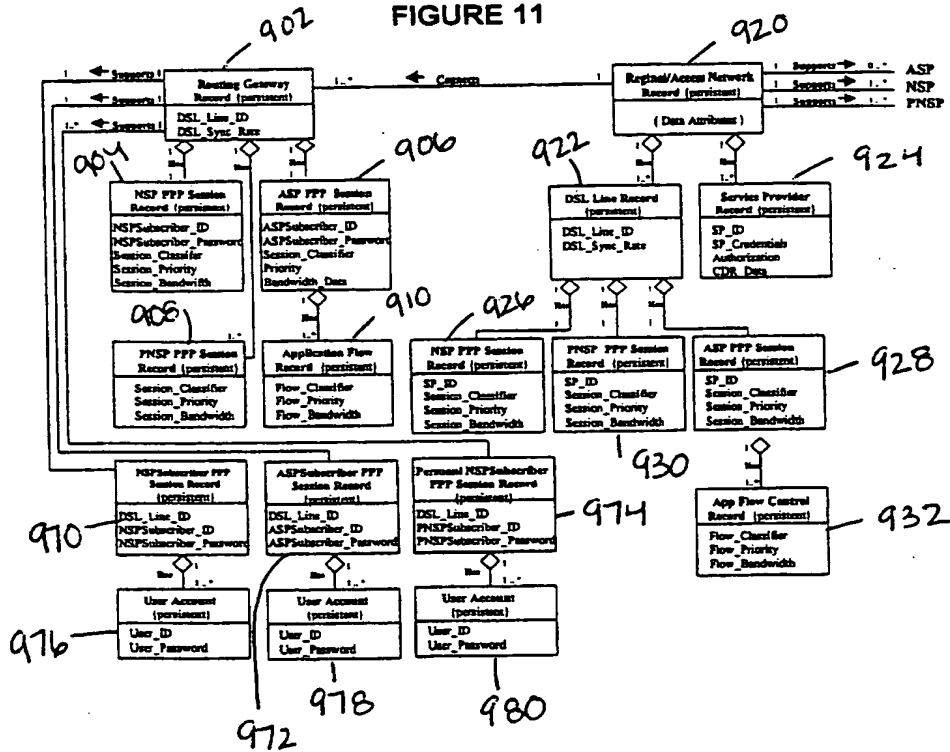


FIGURE 12

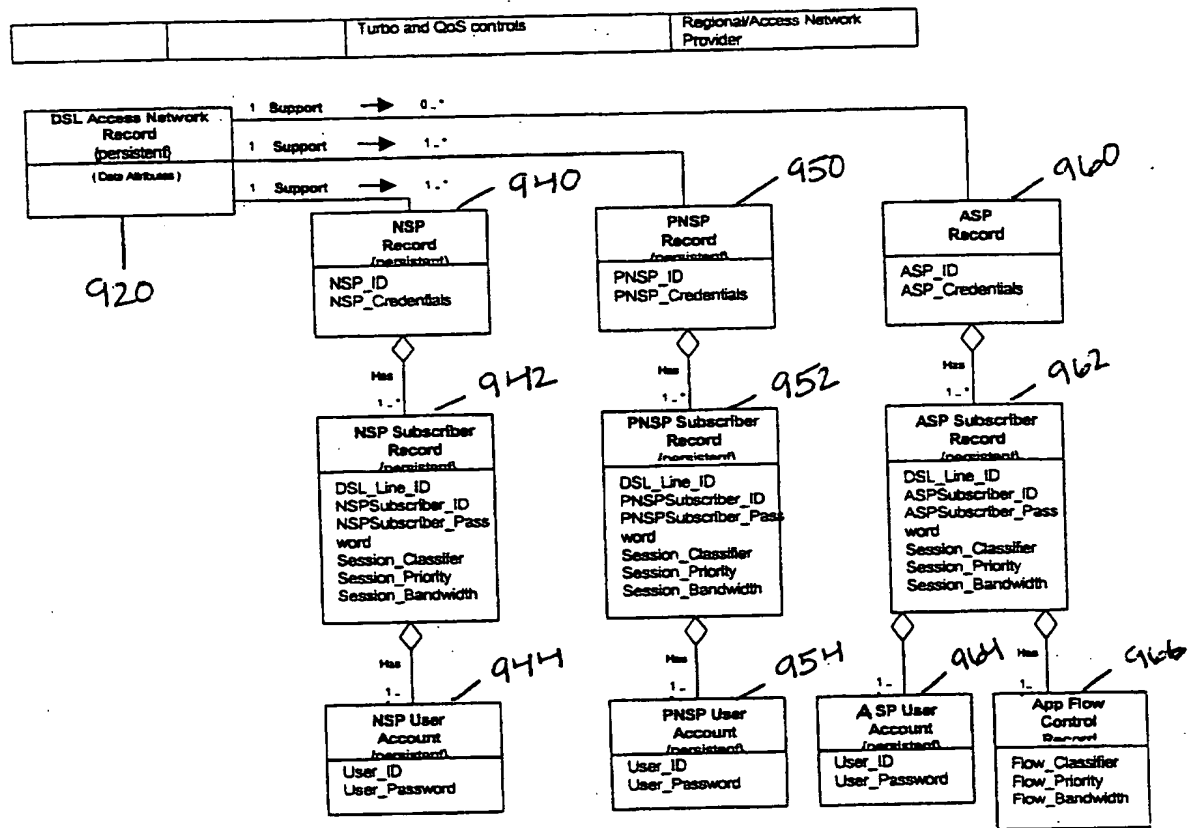


FIGURE 13

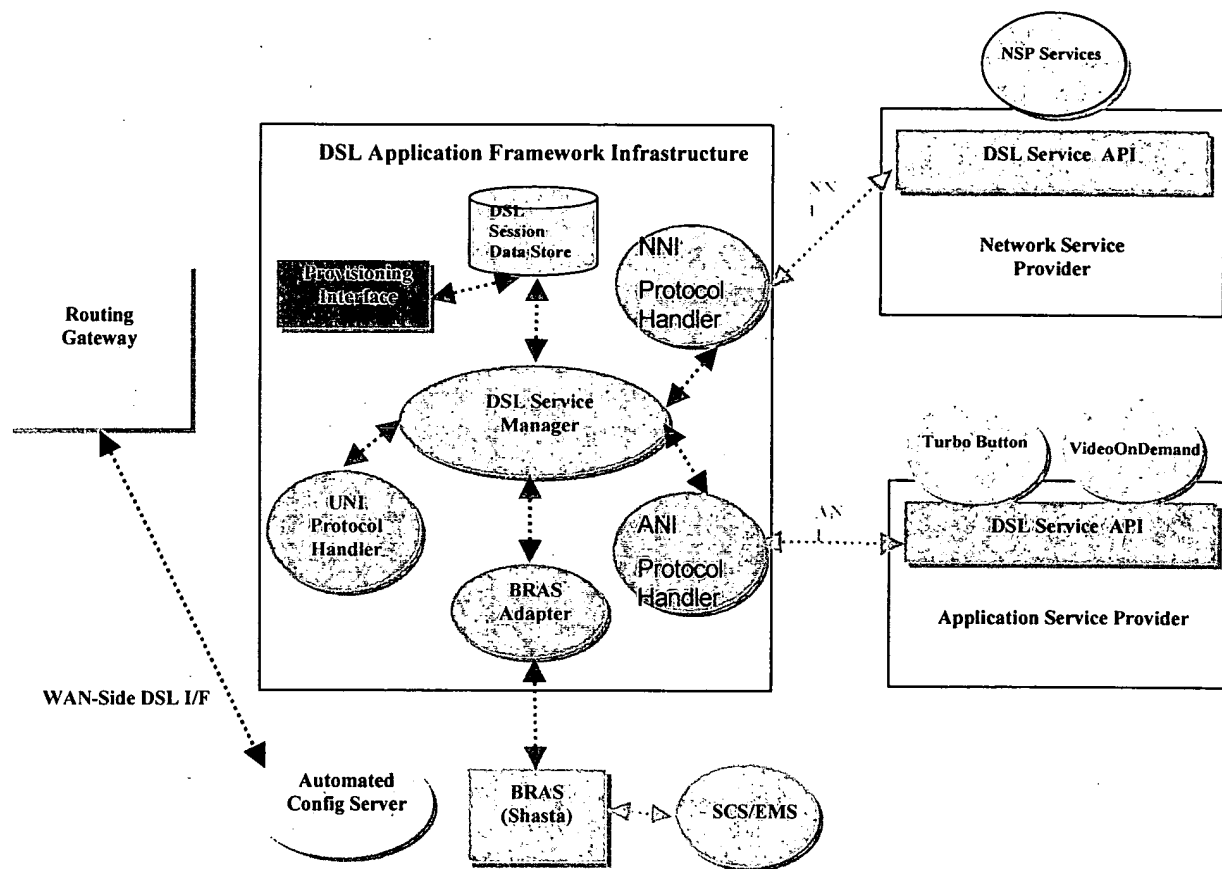


FIGURE 14

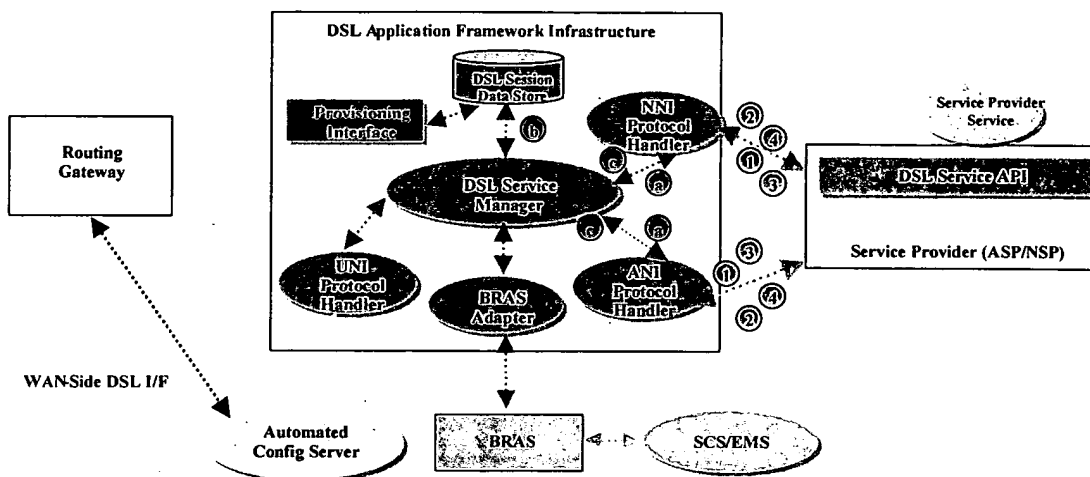
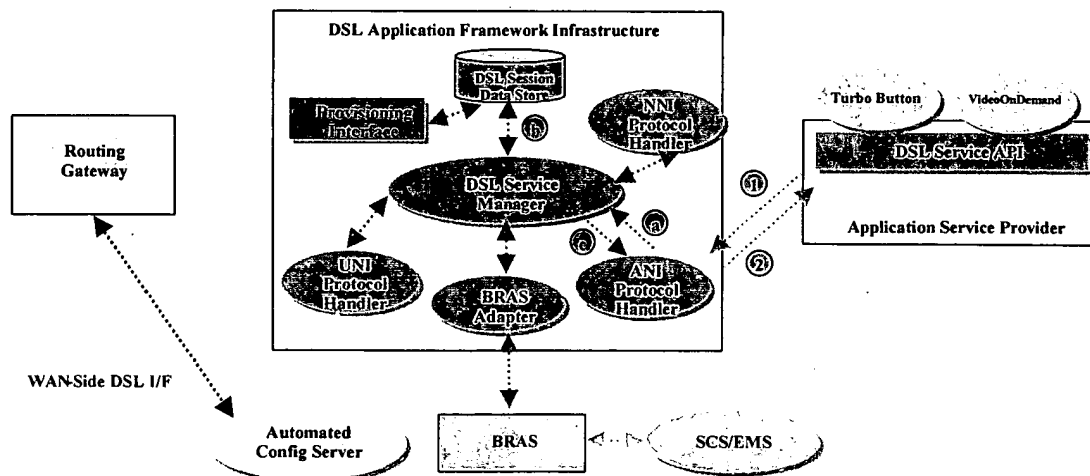


FIGURE 15



The diagram illustrates the DSL Application Framework Infrastructure, which is a central component connecting various external systems and services. The infrastructure is composed of several key elements:

- DSL Application Framework Infrastructure:** The central hub, containing:
 - DSL Session Data Store:** A database component at the top.
 - Provisioning Interface:** A component on the left, connected to the DSL Session Data Store.
 - DSL Service Manager:** A central component within the infrastructure, connected to the Provisioning Interface, UNI Protocol Handler, VNI Protocol Handler, and BRAS Adapter.
 - UNI Protocol Handler:** A component on the bottom left, connected to the DSL Service Manager.
 - VNI Protocol Handler:** A component on the bottom right, connected to the DSL Service Manager.
 - BRAS Adapter:** A component at the bottom, connected to the DSL Service Manager and the BRAS.
- External Systems and Services:**
 - Routing Gateway:** Located on the far left, connected to the DSL Application Framework Infrastructure via a **WAN-Side DSL I/F** (Wide Area Network-Side DSL Interface).
 - Application Service Provider:** Located on the far right, containing a **DSL Service API** and connected to the DSL Application Framework Infrastructure.
 - Automated Config Server:** Located at the bottom left, connected to the BRAS.
 - BRAS (Broadband Remote Access Server):** Located at the bottom center, connected to the DSL Application Framework Infrastructure and the SCS/EMS.
 - SCS/EMS (Service Control System/Element Management System):** Located at the bottom right, connected to the BRAS.
- Connections and Data Flow:**
 - Connection (a):** DSL Session Data Store to Provisioning Interface.
 - Connection (b):** Provisioning Interface to DSL Service Manager.
 - Connection (c):** DSL Service Manager to UNI Protocol Handler.
 - Connection (d):** DSL Service Manager to VNI Protocol Handler.
 - Connection (e):** VNI Protocol Handler to BRAS Adapter.
 - Connection (f):** BRAS Adapter to BRAS.
 - Connection (g):** BRAS to SCS/EMS.
 - Connection (h):** DSL Service Manager to DSL Session Data Store.
 - Connection (i):** DSL Service Manager to Provisioning Interface.
 - Connection (j):** DSL Service Manager to UNI Protocol Handler.
 - Connection (k):** DSL Service Manager to VNI Protocol Handler.
 - Connection (l):** DSL Service Manager to BRAS Adapter.
 - Connection (m):** DSL Service Manager to DSL Session Data Store.
 - Connection (n):** DSL Service Manager to Provisioning Interface.
 - Connection (o):** DSL Service Manager to UNI Protocol Handler.
 - Connection (p):** DSL Service Manager to VNI Protocol Handler.
 - Connection (q):** DSL Service Manager to BRAS Adapter.
 - Connection (r):** DSL Service Manager to DSL Session Data Store.
 - Connection (s):** DSL Service Manager to Provisioning Interface.
 - Connection (t):** DSL Service Manager to UNI Protocol Handler.
 - Connection (u):** DSL Service Manager to VNI Protocol Handler.
 - Connection (v):** DSL Service Manager to BRAS Adapter.
 - Connection (w):** DSL Service Manager to DSL Session Data Store.
 - Connection (x):** DSL Service Manager to Provisioning Interface.
 - Connection (y):** DSL Service Manager to UNI Protocol Handler.
 - Connection (z):** DSL Service Manager to VNI Protocol Handler.

FIGURE 18

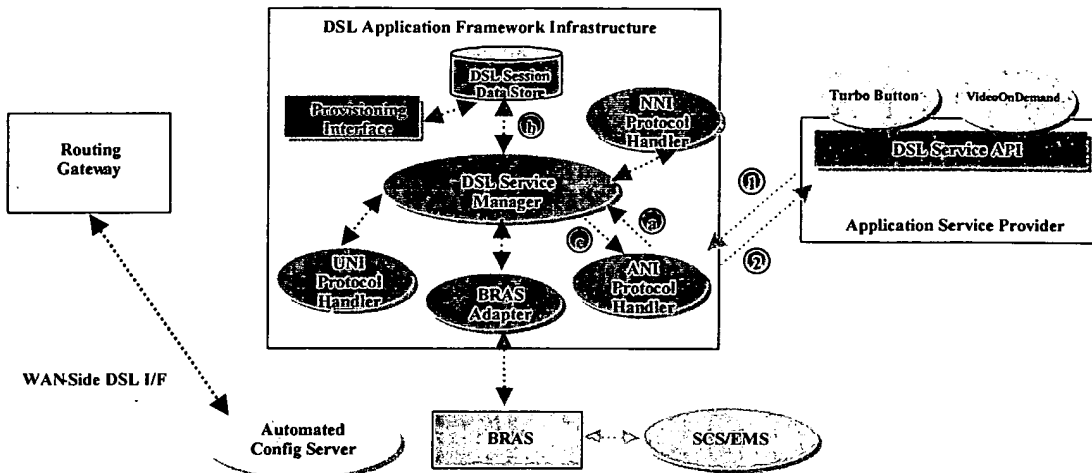


FIGURE 19

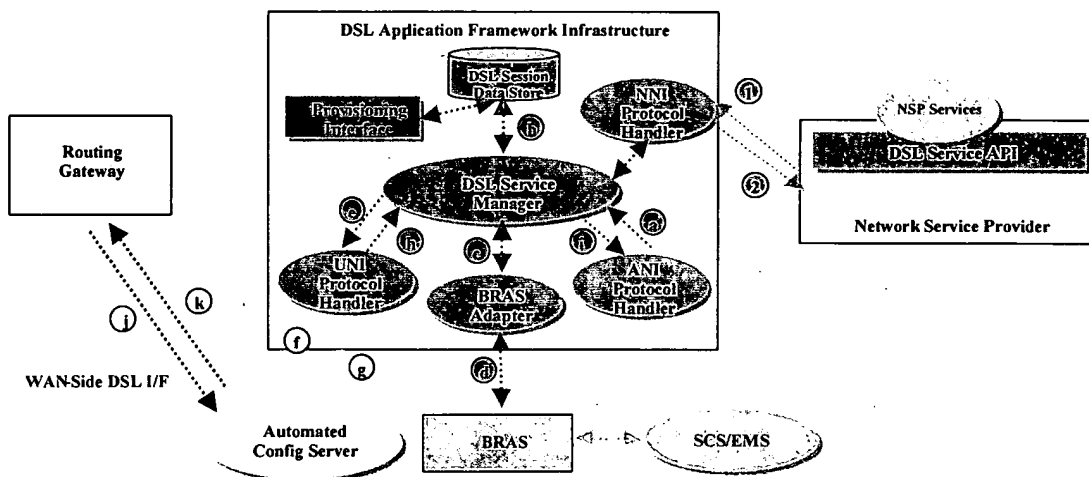


FIGURE 20

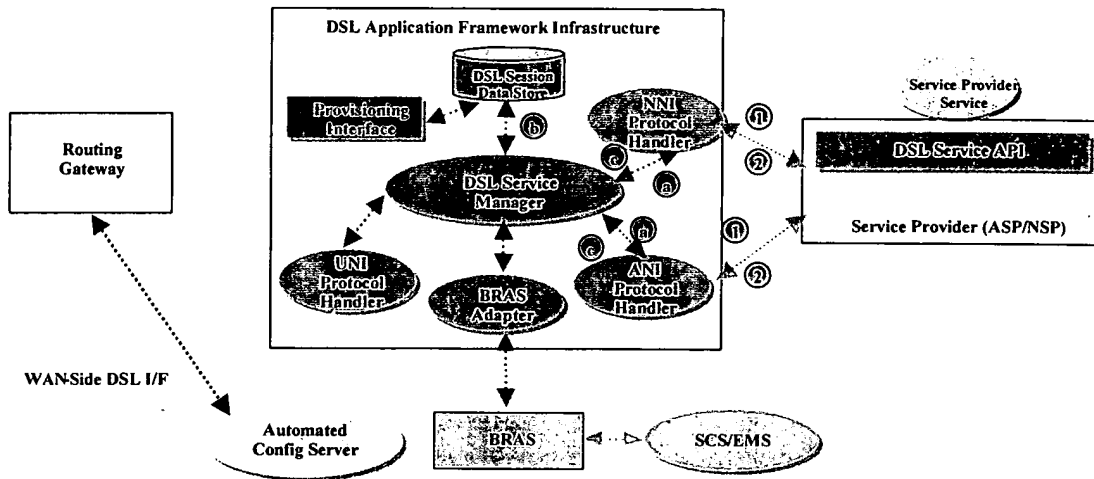


FIGURE 21

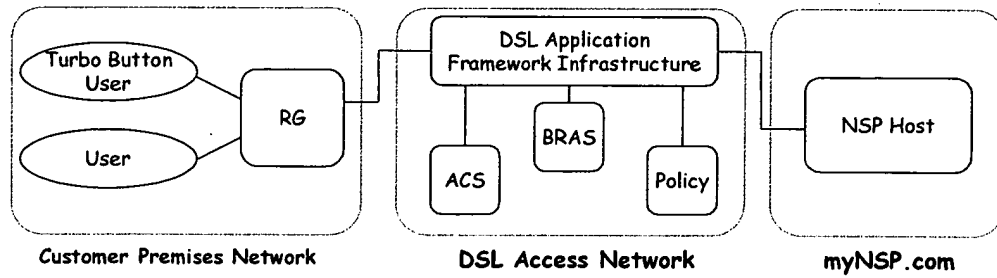


FIGURE 22

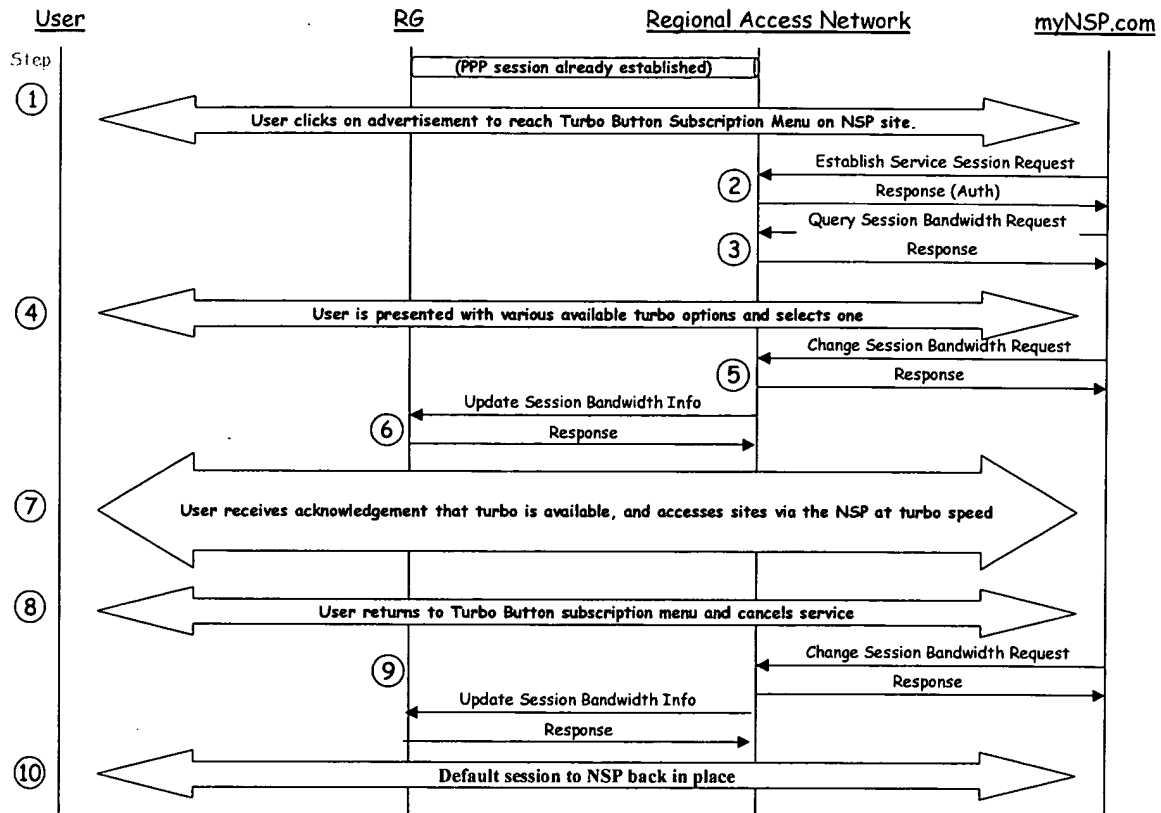


FIGURE 23

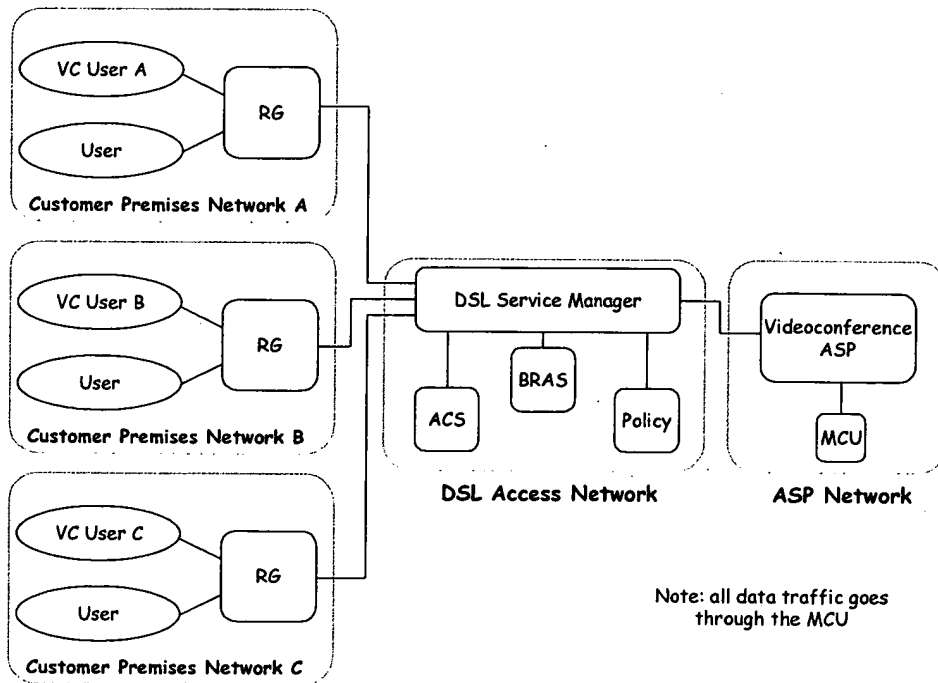


FIGURE 24

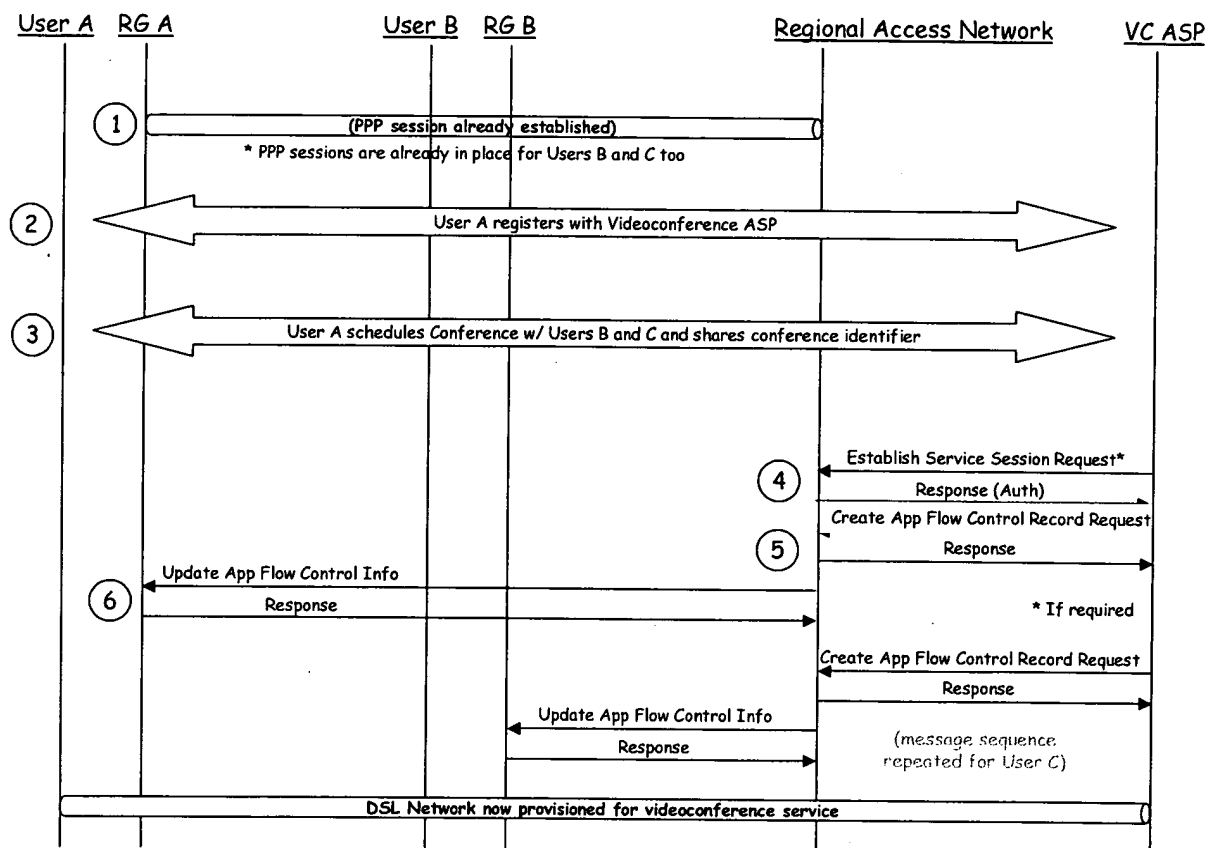


FIGURE 25

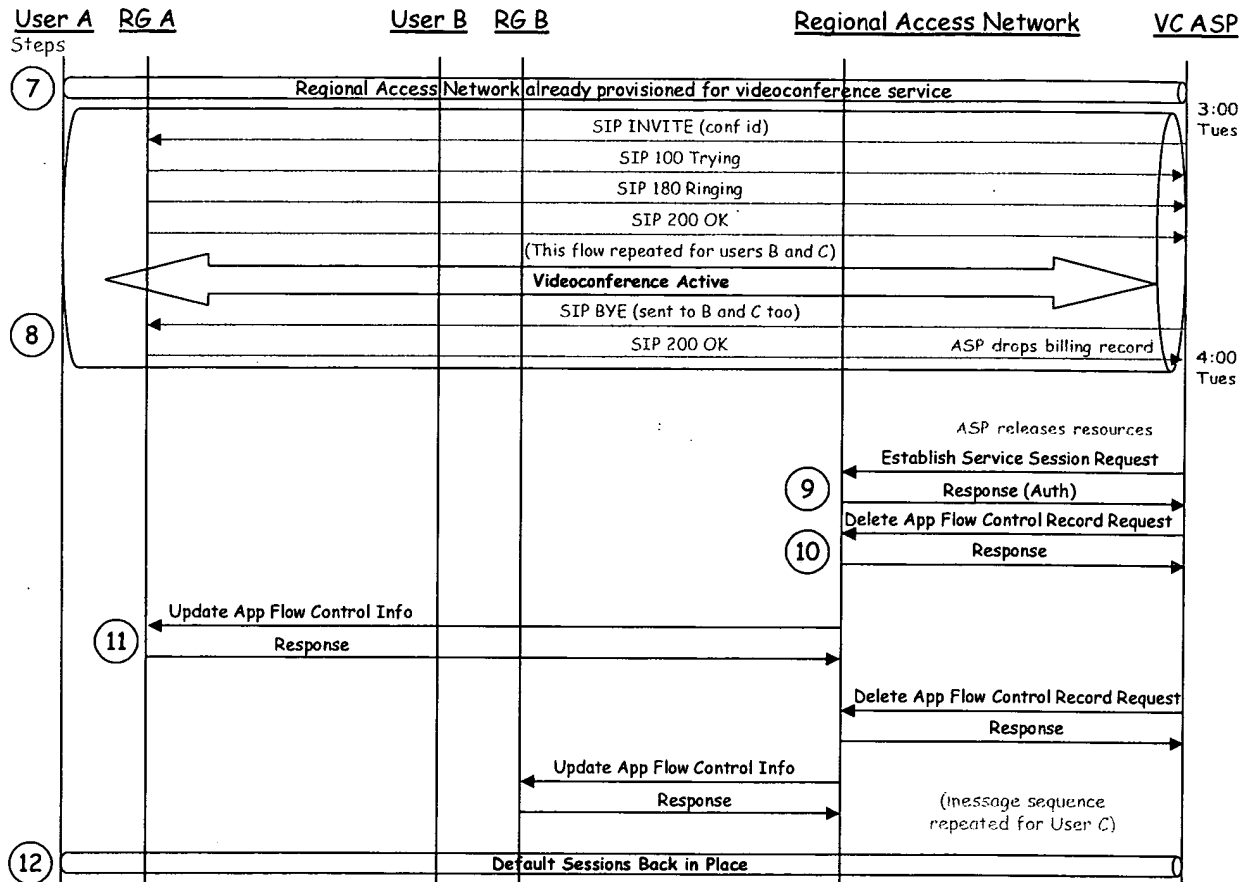


FIGURE 26

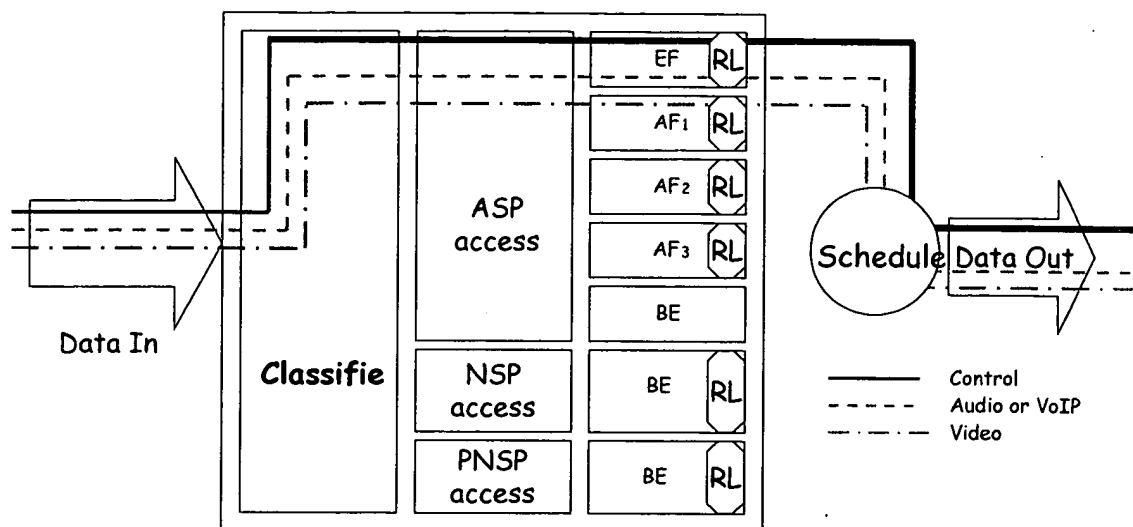
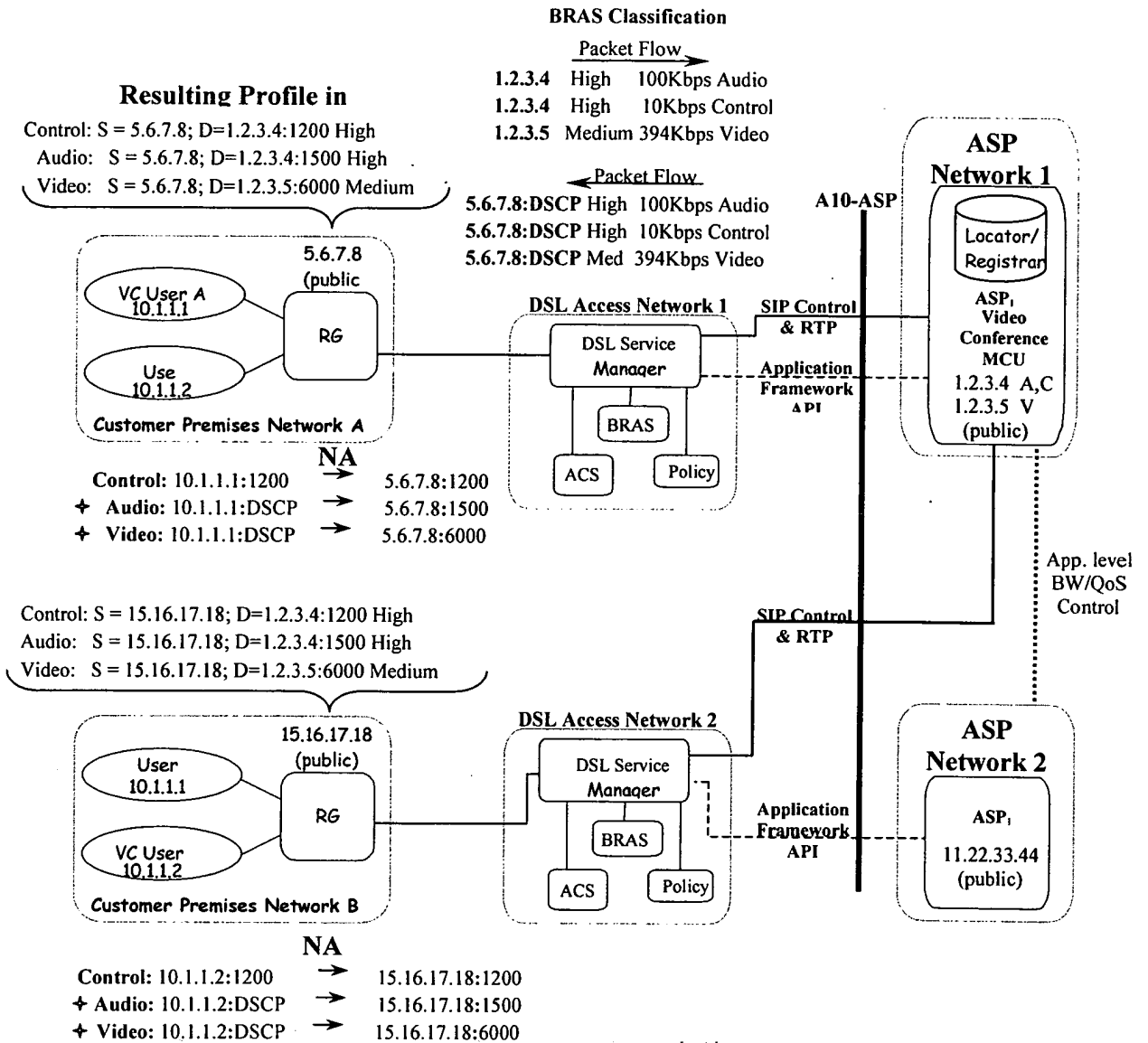


FIGURE 27



- ✦ These flows are set up dynamically at the VC client and the DSCP are assigned for the audio and the video streams. The ALG/NAT maps the 10.X.X.X ports to the corresponding IP address and ports for audio and video specified in the ACS profile based on the DSCP set by the VC client. This ensures that the RG, BRAS, and ASP videoconference MCU maintain consistent port information with regard to the various flows.

FIGURE 28

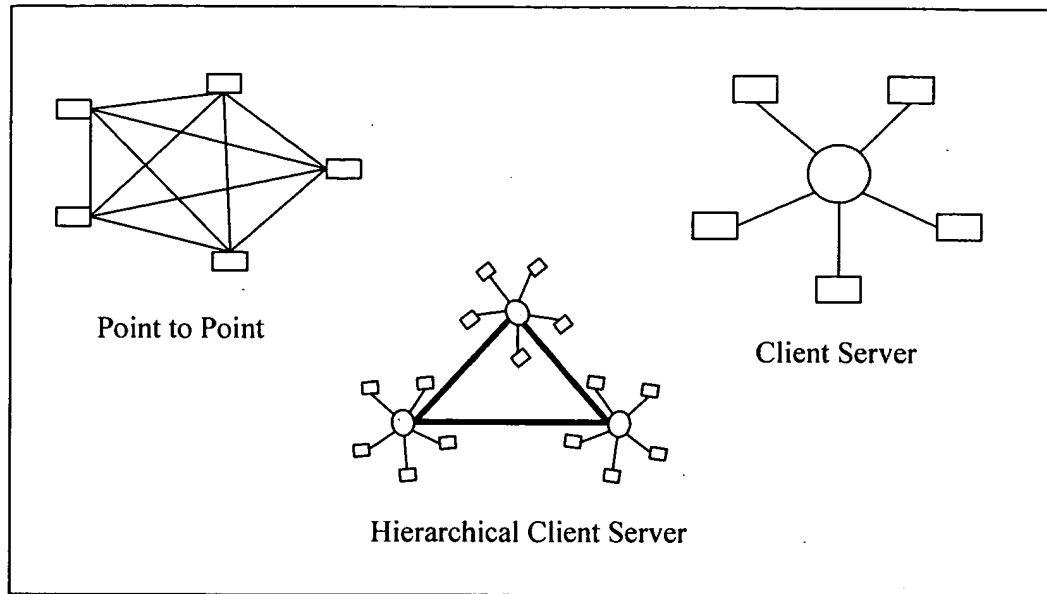


FIGURE 29

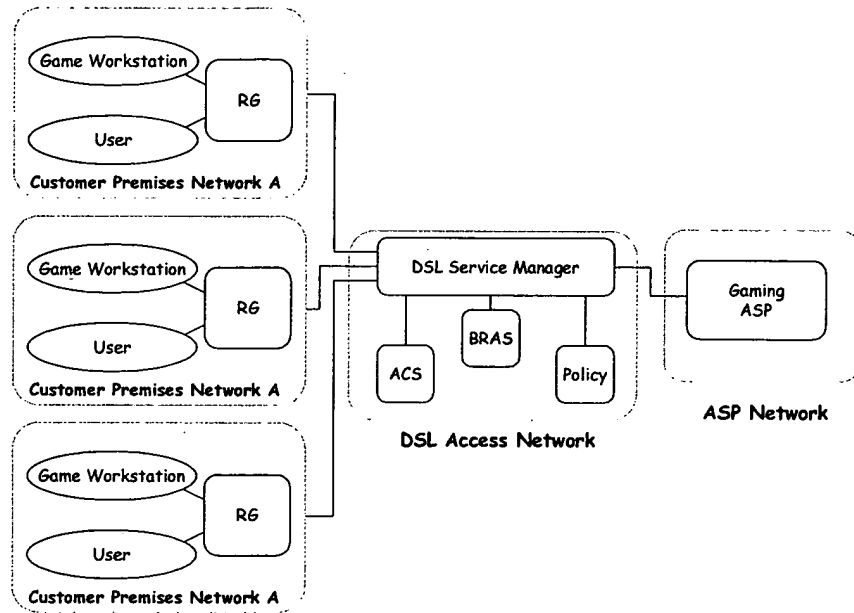


FIGURE 30

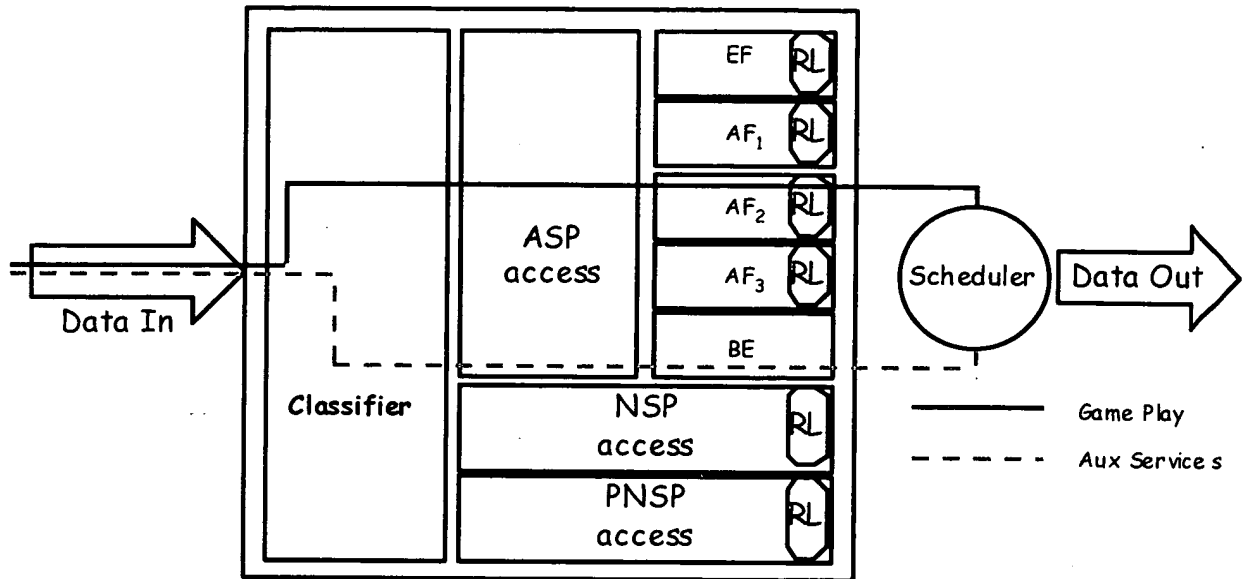


FIGURE 31

